Service Data Management

TMMA Briefing

29 October 2003

Marine Corps Systems Command

The Business Transformation

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Agenda

- Design Intent
- WSA Overview
- Where we are...
- Where we are going...

ORGANIZATIONAL DESIGN
INTENT AND FEATURES

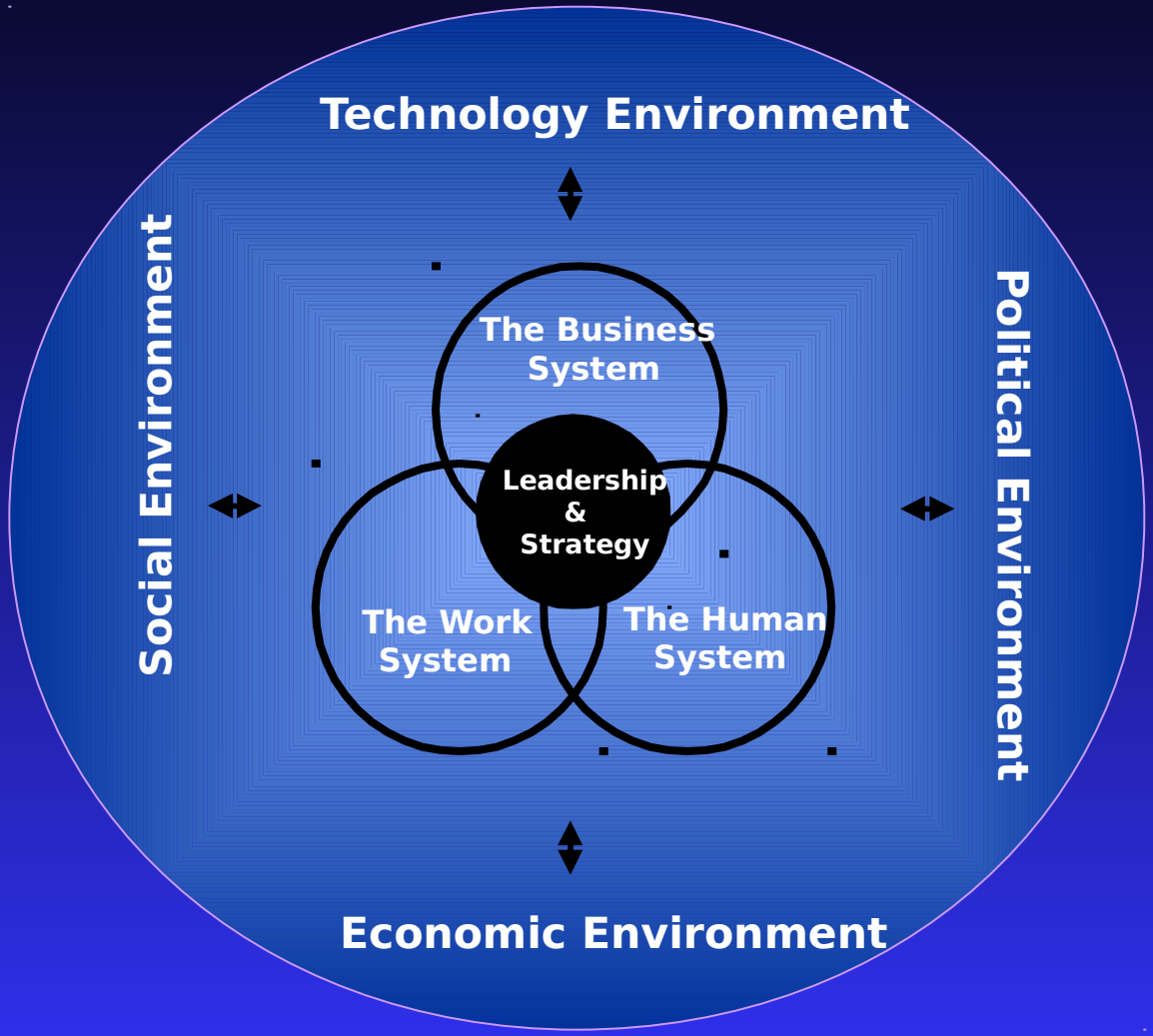
- CREATE GREATER CUSTOMER FOCUS AND ALIGNMENT
- TEAM BASED ORGANIZATION
- PRODUCT CENTRIC
- SYSTEMS APPROACH TO ACQUISITION
- ACCOUNTABILITY AND AUTHORITY PUSHED TO LOWEST PRACTICAL LEVEL
- TRANSFER OF EXPERTISE FROM STAFF TO LINE ORGANIZATION
- STRUCTURE ENABLES CAREER MGT AND PROFESSIONAL DEVELOPMENT

Commander's Philosophy

"….DEFENSE ACQUISITION IS NOW AND WILL REMAIN IN THE FUTURE……..

…..PRIMARILY A HUMAN ENDEAVOR."

Whole Systems Architecture

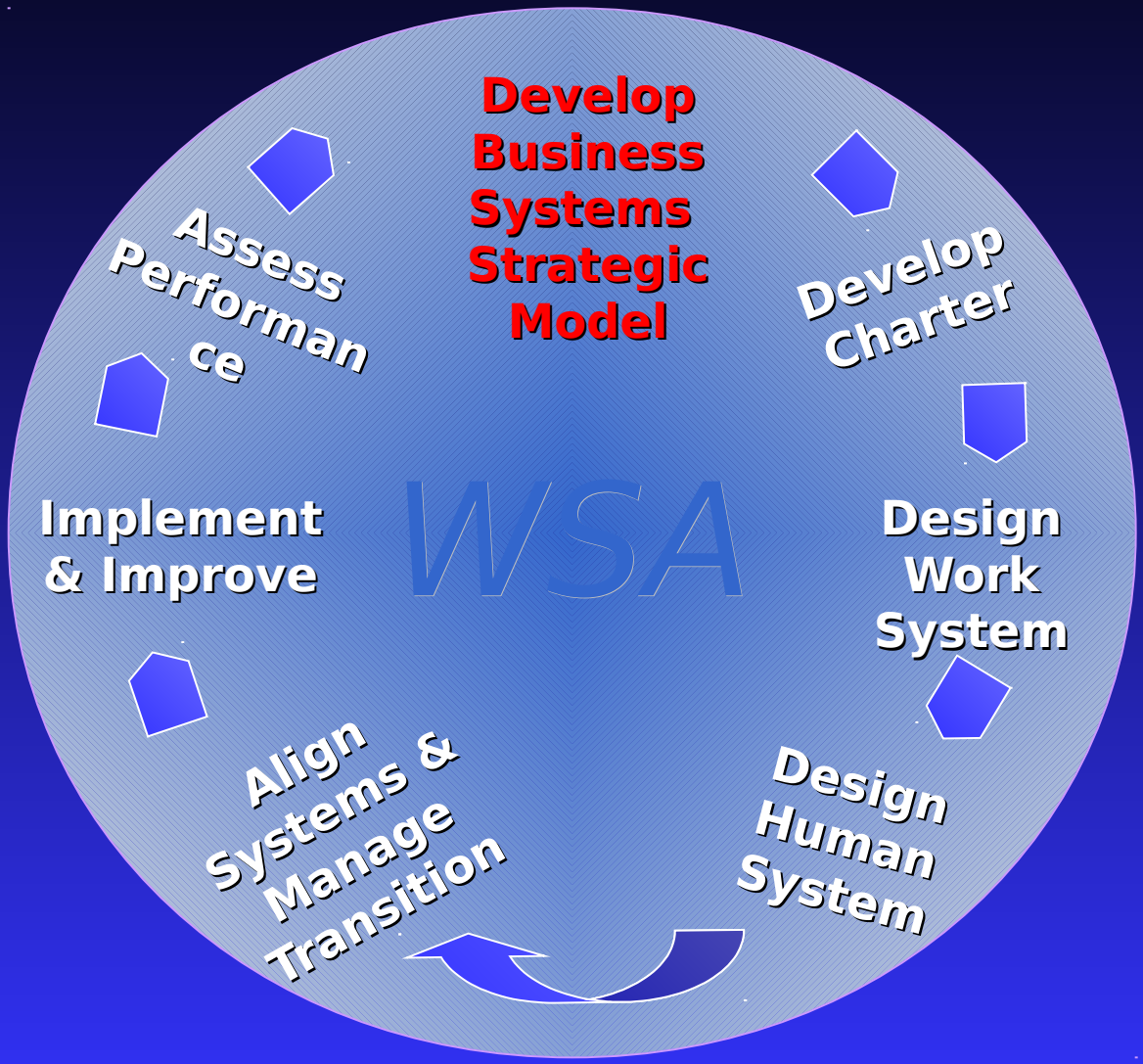


Whole Systems Architecture

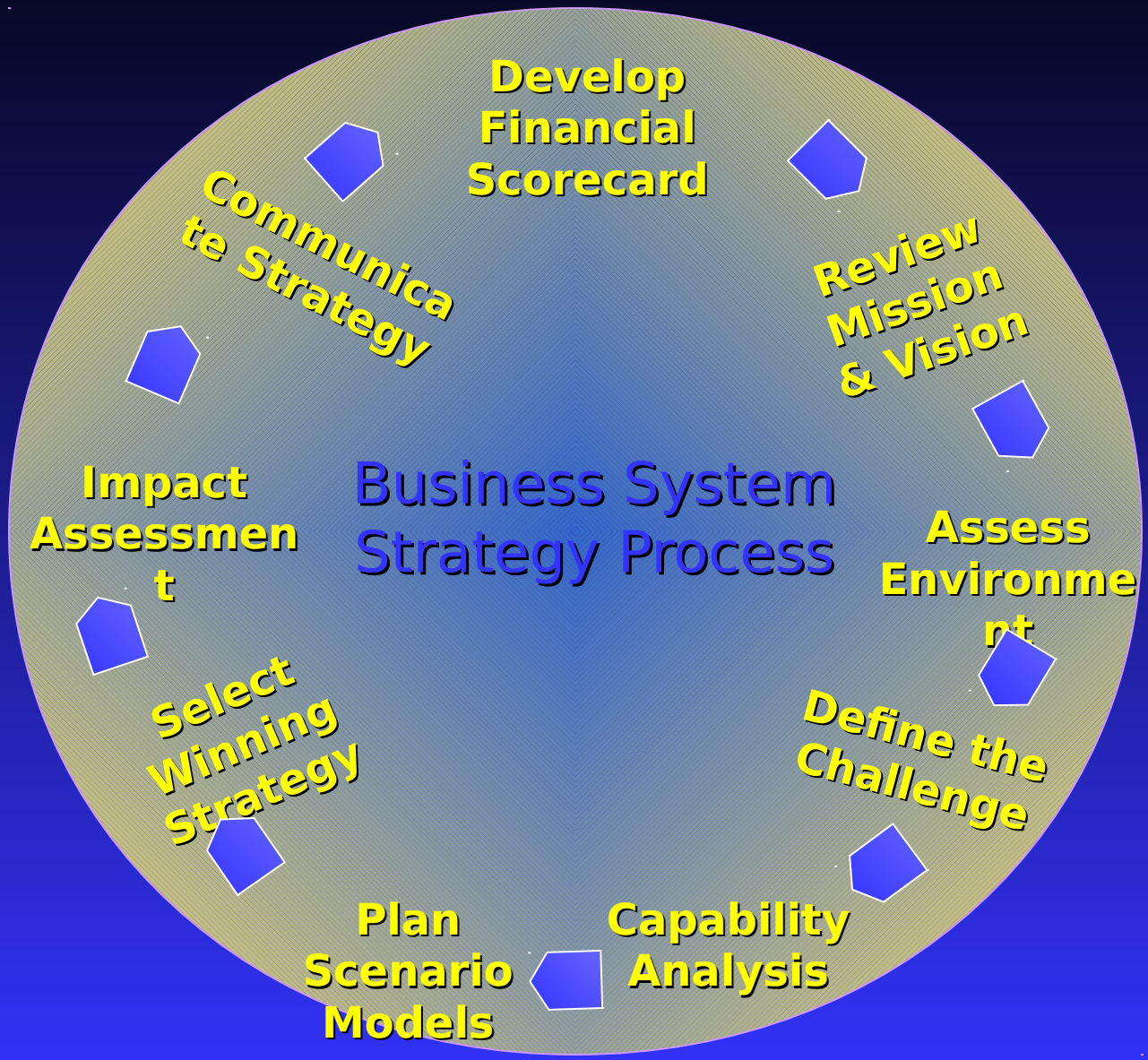
WHY??

- ✓ Systems approach to transformation
- ✓ Major focus on Human System
- ✓ Initiatives not independent, but tied togeth
- ✓ Initiatives linked to a business case
- ✓ Proven success in commercial industry

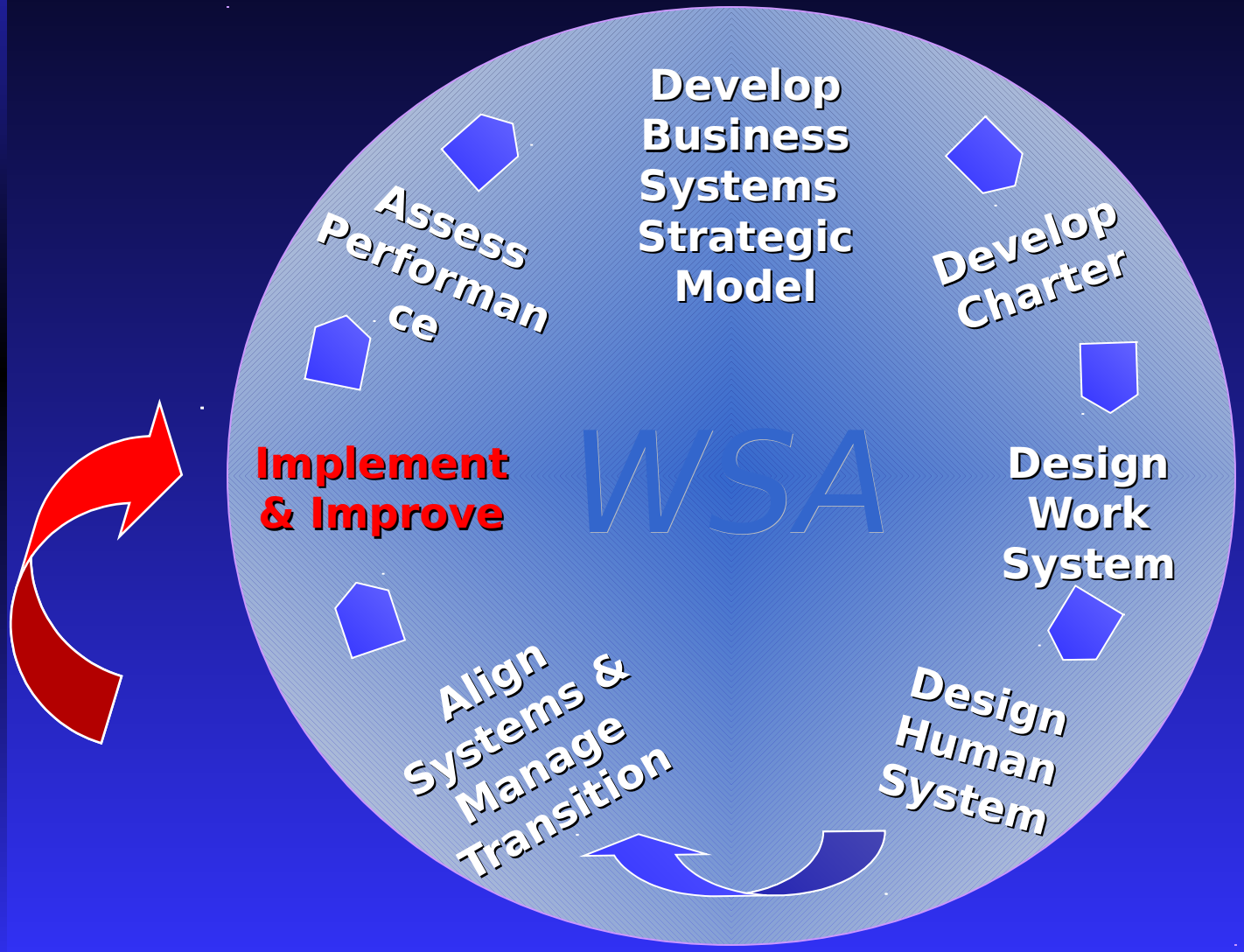
Whole Systems Architecture



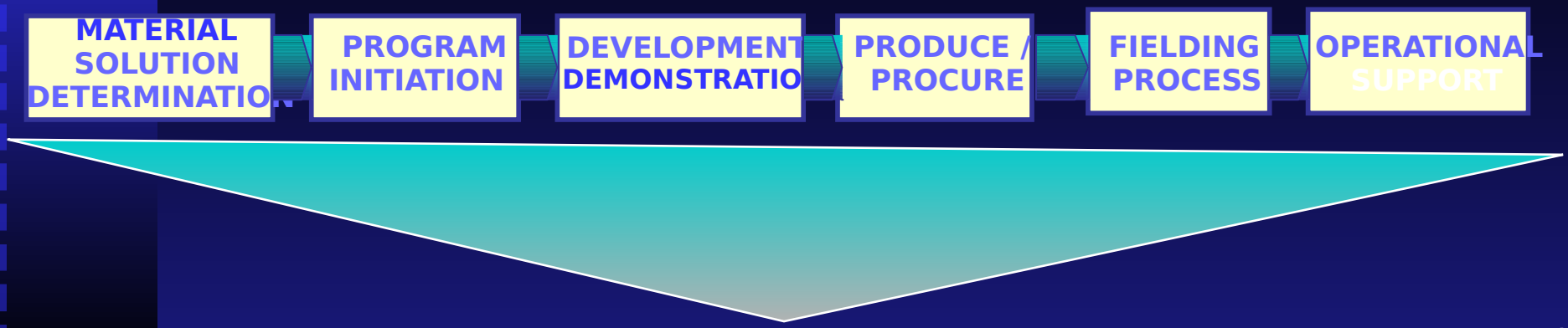
Strategic Business Model



Whole Systems Architecture



Core Process



KEY ENABLING PROCESSES

Hiring

Orientation

Professional Dev/Career Mgmt

Rewards & Consequences

Enhanced Personnel Services

External Communications

Internal Communications

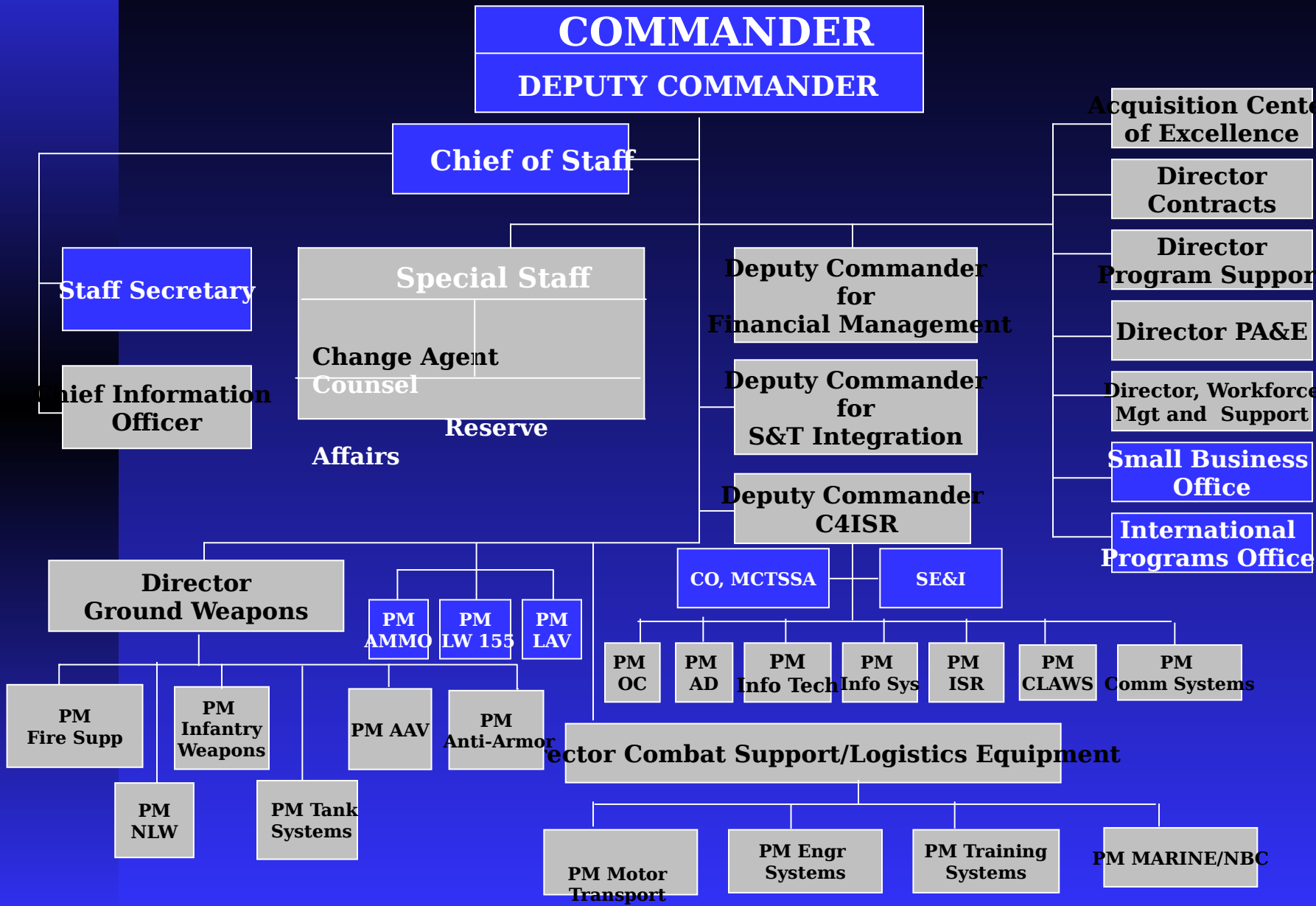
Customer Satisfaction

Performance Feedback System

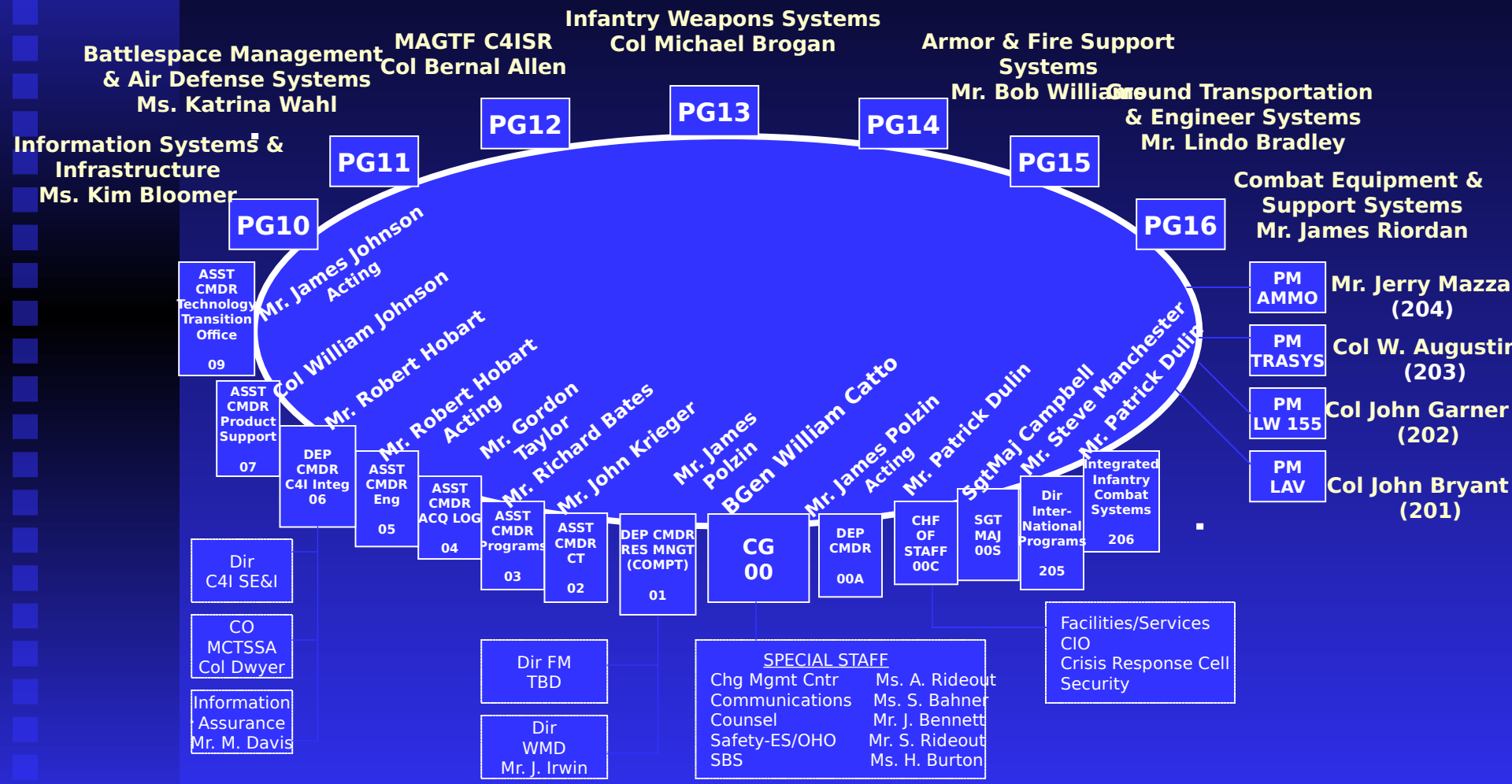
Command Mission

To serve as the Commandant's principal agent for equipping the Operating Forces to accomplish their warfighting mission.

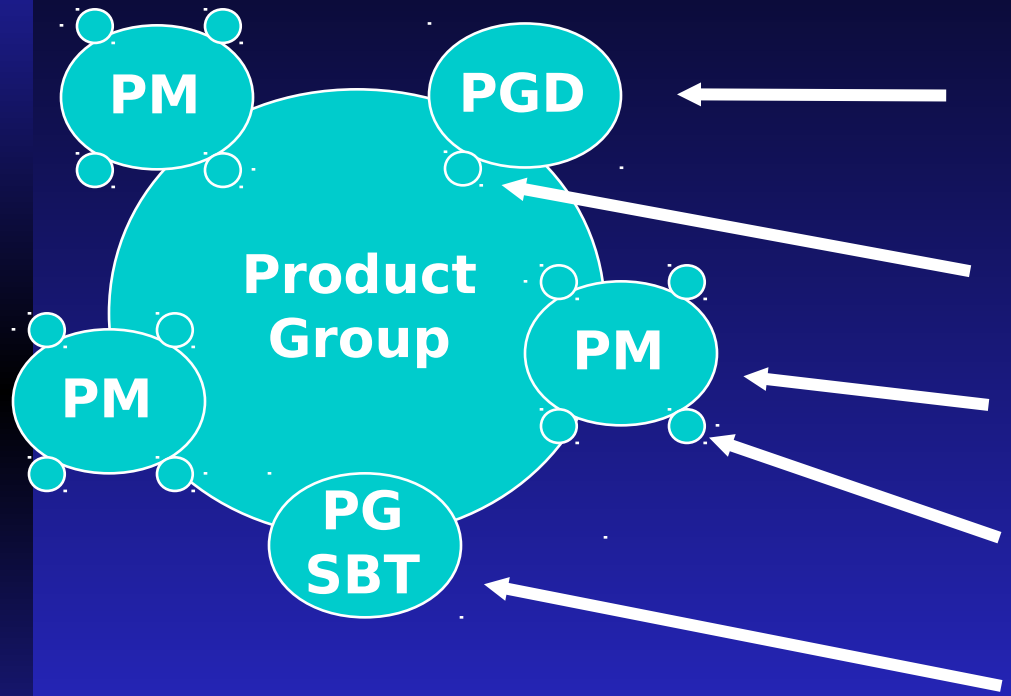
How Were We Organized?



MARCORSYSCOM CURRENT ORGANIZATION



Product Groups



Product Group Director

Operations Cell

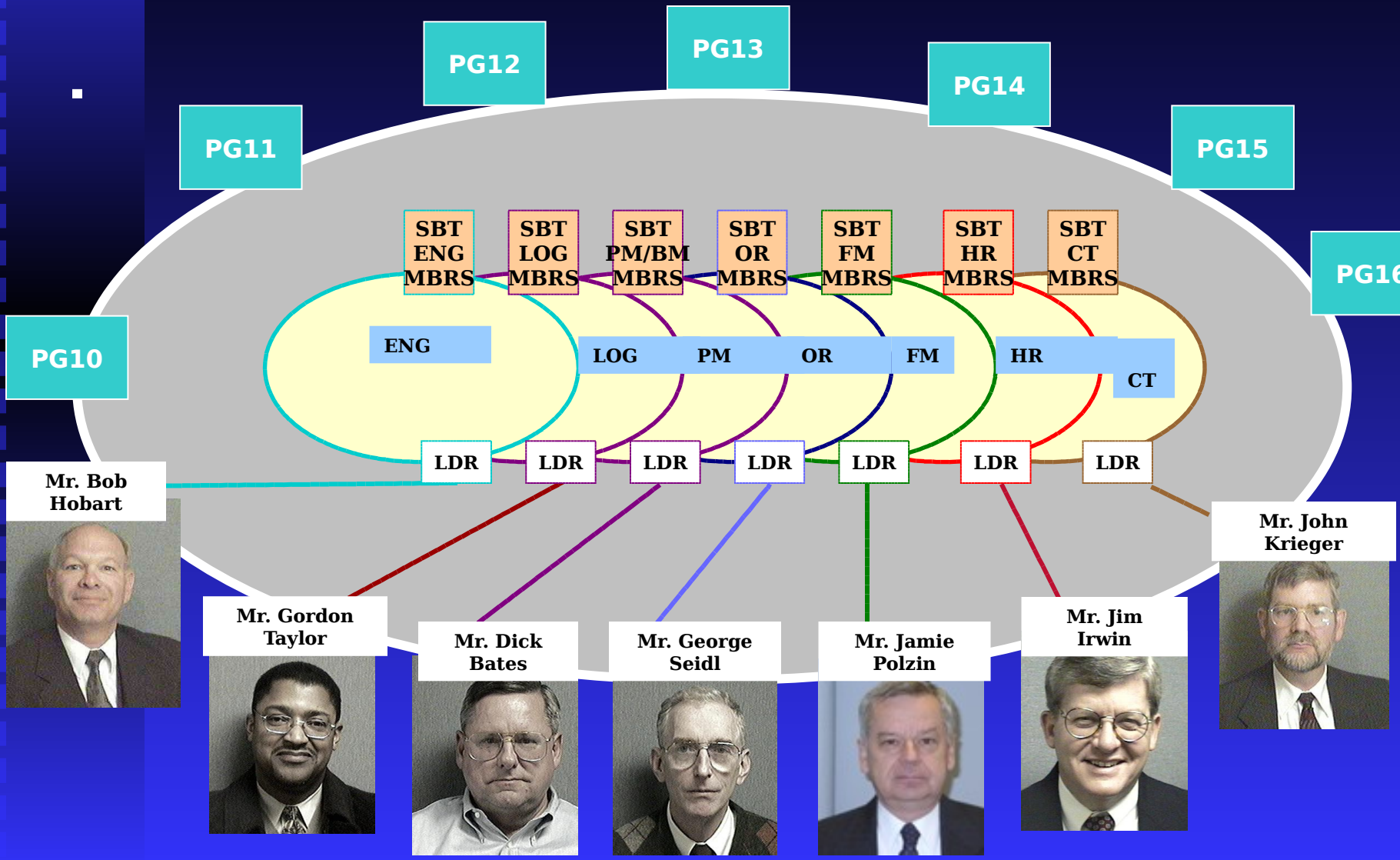
Program Manager

Project Team/s

Strategic Business Team

Note: The team consisting of the PGD, PG SBT Team Leader, and the PMs comprise the Product Strategy Team (PST).

Functional Integration Teams



Assistant Commander, Acquisition Logistics

Mission Statement

Serve as the Focal Point and Competency Manager for all Acquisition Logistics Issues and Activities related to the Command’s Equipping Process.

ACAL Organization Chart

Inherent Acquisition Logistics Functions

Functional Elements

- Maintenance planning
- Supply Support
- Facilities
- Tech Manuals/Data
- Support Equipment
- Training & Training Support
- Computer Resources
- Packaging, Handling, Storage, and Transportation
- Manpower/Personnel
- Design Interface (CM, RAM)

Enablers

- Fielding Strategy
- Recruitment Strategies
- Acquisition Logistics Policy, Procedures, Processes, and Tools
- Independent Logistics Assessment
- Internal/External Interface for Acquisition Logistics Policy
- Functional Training & Professional Development

Product

System Support Package

New Acquisition Logistics Functions

- Best Practices Proponent
- Functional Integration Team (FIT)
- Logistics Workforce Professional Development
- Acquisition Logistics Knowledge Center Manager
- Command and Functional Strategic Planning
- Performance Measures
- Single Process Owner for Acquisition Logistics Processes & Procedures
- Develop and Maintain Recruitment Program

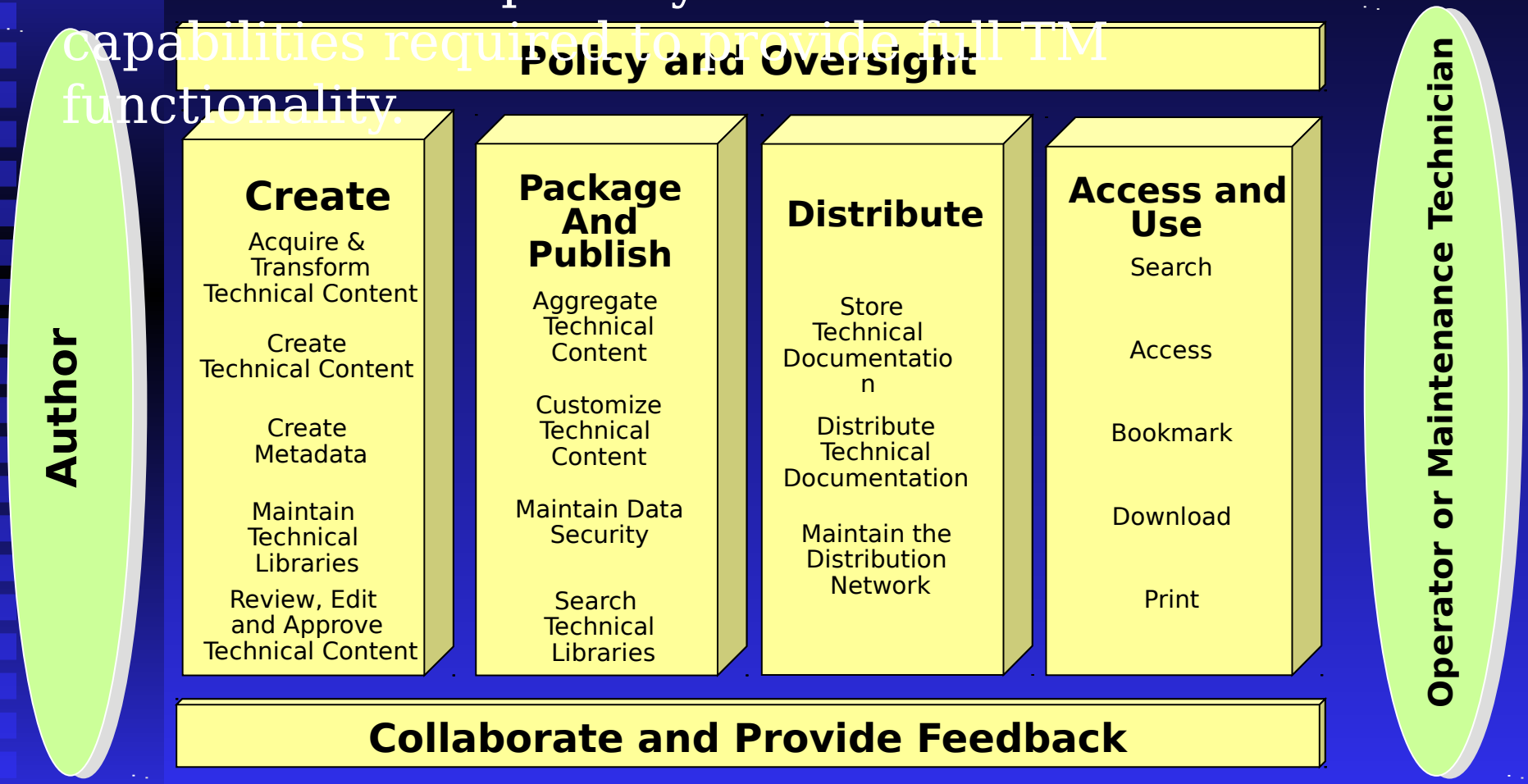
Questions

Service Data Management Vision

The Service Data Management vision is a broad enterprise view that starts with Technical Manuals and expands towards

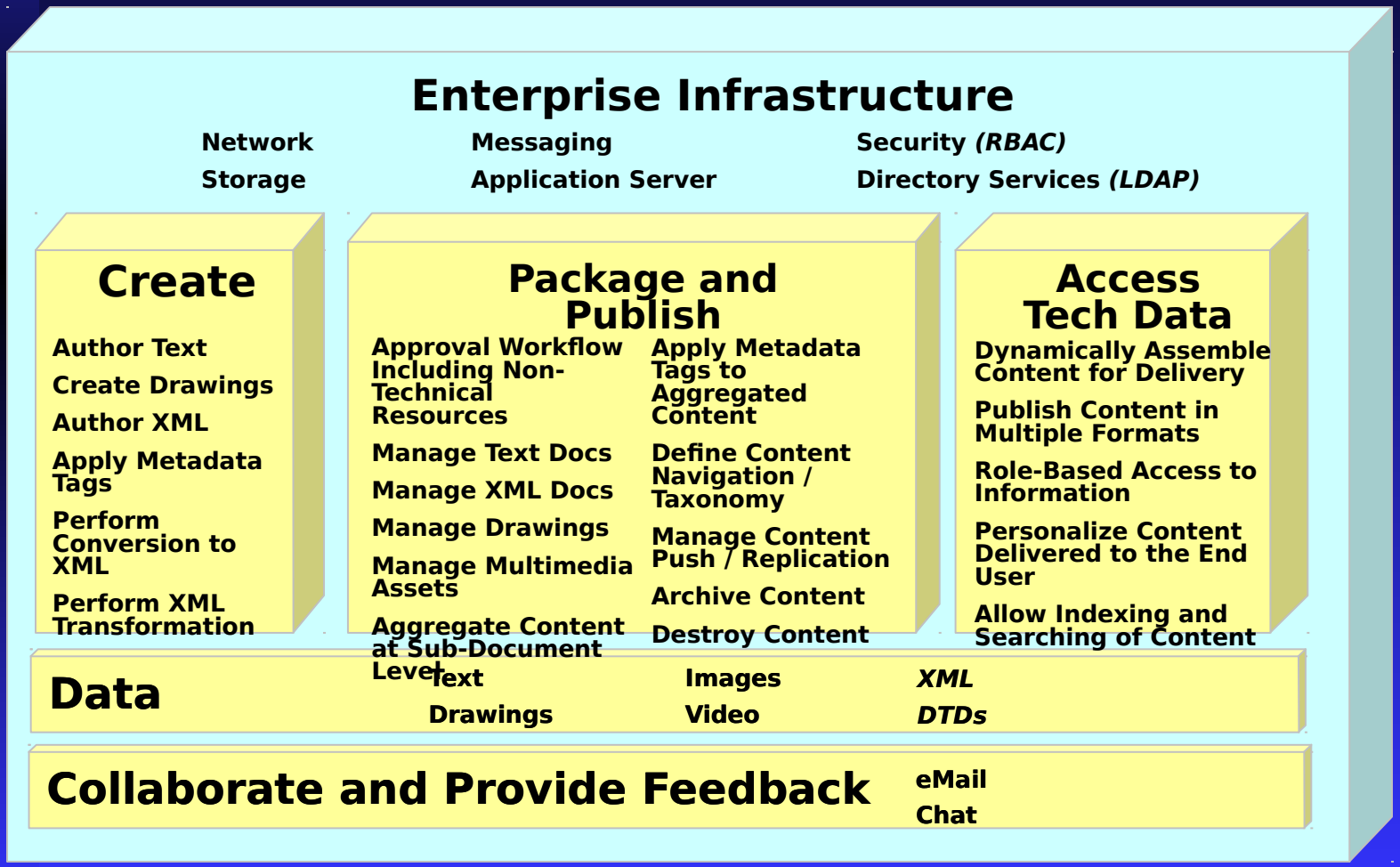
TM Business Capability Framework

The Business Capability framework considers the capabilities required to provide full TM functionality.



TM COTS-Based Technical Framework

By focusing on these business capabilities, the COTS-based technical framework applies commercial standards to deliver technical content to enable broader Service Data Management capabilities.



The SDM Proof of Concept

The SDM Proof of Concept will provide a working reference model and lessons learned in implementing cross-enterprise SDM capabilities, beginning with effective technical manual management

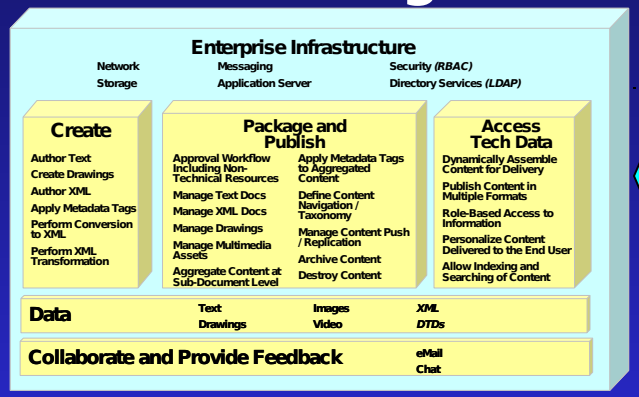
Asset specific

Standard across the enterprise

The Asset

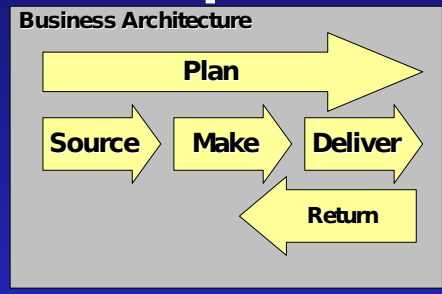
- **Diagnostics**
- **Prognostics**
- **Usage Monitoring**

SDM Technical Content Management



- **Technical Data**
- **Maintenance Instructions**
- **Training Content**

The Logistics Enterprise



- **Maintenance scheduli**
- **Maintenance executio**
- **Service Parts Logistic**
- **Acquisition**

. . .based on commercial products and commercial standards.

PMLAV

Life Cycle Logistics Support System - Vision

"To enable the entire LAV Community to work collaboratively in a web-based integrated digital environment to better perform life-cycle management and meet the LAV mission"

PMLAV Integrated Digital Environment

- Phase II Initiatives
  - Product Life-Cycle Management (PLM)
    - EDS
  - Configuration Management Application
  - Interactive Electronic Technical Manual (IETM)

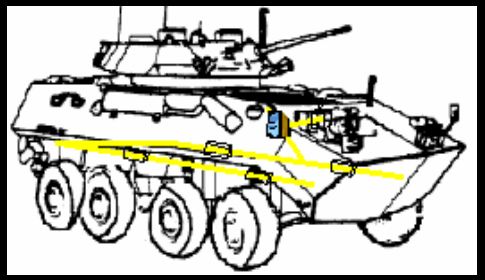
TM MANAGEMENT

- Technical Manual management is a major component of PMLAV IDE Team's vision
  - MCSC TM Lifecycle Management Process has recently been approved by USMC PGDs.
    - Signature authority for publications will be transferred from MCSC Technical Publications Section, Albany to PGDs.
      - Future support from Technical Publications Section to PGDs undefined.
- PMLAV is taking ownership of TM management.

PMLAV IDE PHASE II

- Portal Dynamics (PD) is the PMLAV IDE Integrator.
  - “The contractor shall design, develop, and integrate an integrated IETM solution with the IDE portal. The contractor shall design a mechanic tracking database, parts order history database, and sensor database and integrate the IETMs into the PMLAV-IDE”.
  - PD selected Enigma as the PMLAV IETM developer

PLATFORM



- Databus and Sensors
- Diagnostics and Prognostics
- CPU w/On-board Database

- System Faults (including diagnostic and prognostic info.)

- Platform Data

SMART MAINTAINER

- IETMs

- Virtual Mechanic Tool

Maint. Action → ERO's/Order Parts

Maint. Action → QDRs

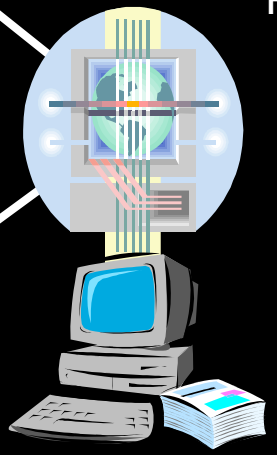
- Configuration Data

- Platform Data

- Maint. Forms/ Records

LAV Stakeholders

PORTAL



- Parts Demand Database
- Mechanic tracking DB
- Vehicle Configuration DB
- Sensor DB
- Readiness Data
- Reliability Data
- TOC Data
- CWT Data
- CM Data

Program Goals:

- Develop and FIELD a core set of functionality in each area.

- Systems must be affordable, and scalable to allow for expansion of functionality in the future

ENIGMA

USMC Light Armored Vehicle Overview

IETM Overview

LAV –Enigma IETM

- **Level 4/5 IETM supporting Remote and Local Maintenance**
- **IETM Integrations into:**
  - **On board Diagnostics system**
  - **Configuration Management Database**
  - **Parts Ordering/Requisition**
- **On-Line Illustrated Parts Catalog**
- **Multiple Device Delivery – PC, Tablet, PDA**
- **Distribution – Up-to-date data – Web, CD, Paper, Wireless.**
- **PM LAV sustainment/update tool**
- **Robust Printing Capabilities**
- **Mechanic Tracking**

LAV eMRO Program Features

Sensor Database Integration

- **Read captured fault codes and drive where the technician goes inside the content.**
- **Allow for user to manually enter a fault code.**
- **Display fault history for a specific vehicle**

LAV eMRO Program Features

Configuration Management Integration

- **IETM is the mechanics view into the system**
- **Effectivity Filtering by**
  - **Serial number**
  - **Model**
  - **Applied modification instructions/ECP's**
- **Update CM database through the IETM**
  - **Applied modification instructions**
  - **Limited Technical Inspection forms**
  - **Capture configuration changes in the filed and provide feedback to the program office.**

LAV eMRO Program Features

Electronic Parts Ordering/Requisition

- **End user can create, store, print, e-mail electronic parts order requisition**
- **Integration into e-Procurement, inventory management systems is an option.**

Mechanic Tracking Functionality

- **Track IETM usage by**
  - **Mechanic**
  - **Vehicle**
  - **Task**
- **Print Reports**